

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 1998:293220 CAPLUS  
DN 128:295574

TI Manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets

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SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B27N003-04

ICS B27N003-04; B27N003-08; E04C002-16; B60R013-02

CC 38-2 (Plastics Fabrication and Uses)

Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10119014	A2	19980512	JP 1996-273283	19961016 <--
PRAI	JP 1996-273283		19961016		

AB Coconut fiber-reinforced thermosetting resin sheets are prepared by mixing coconut fiber mats with thermosetting resins and pressing the mats using plates coated with polysiloxanes or laminating coconut fiber mats with fabrics, mixing the laminates with thermosetting resins, and pressing the mats using plates coated with polysiloxanes. The boards are useful for building materials and automobile interior materials (no data). A coconut fiber mat was spray coated with 10 parts urea resin per 100 parts coconut fibers. Two metal plates were spray coated with aqueous 5% (solids) polysiloxane (SH 7036) to coating weight 2 g/m and heated 15 min at 165° and the coated mat was pressed 10 min 165° using the coated metal plates to give a board with good mold release properties.

ST coconut fiber reinforced thermosetting board manuf; plastic thermosetting board coconut fiber reinforced; urea resin reinforced coconut fiber board; melamine resin reinforced coconut fiber board; phenoilic resin reinforced coconut fiber board; building material coconut fiber reinforced board; automobile interior coconut fiber reinforced board; siloxane coating coconut fiber board manuf

IT Polysiloxanes, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(SH 7036, release coatingS; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)

IT Construction materials

(boards; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets for)

IT Reinforced plastics

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(fiber-reinforced; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)

IT Automobiles

(interior parts; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets for)

IT Textiles

(laminates with coconut fiber mats; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)

IT Mats

(manufacture of coconut fiber mat-reinforced thermosetting resin boards using no release sheets)

IT Coir

Construction materials

Molding of plastics and rubbers

(manufacture of coconut fiber-reinforced thermosetting resin boards using no

release sheets)  
IT Aminoplasts  
Phenolic resins, uses  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)  
IT Release coatings  
(polysiloxanes; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)  
IT Plastics, uses  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(thermosetting; manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)  
IT 9003-08-1, Melamine resin 9011-05-6, Urea resin 25036-13-9,  
Formaldehyde-melamine-urea copolymer  
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(manufacture of coconut fiber-reinforced thermosetting resin boards using no release sheets)  
RN 9003-08-1  
RN 9011-05-6  
RN 25036-13-9

L4 ANSWER 2 OF 3 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 1998-327003 [29] WPIDS  
DNN N1998-255888 DNC C1998-100745  
TI Fibreboard manufacture used in building, motor vehicle internal equipment - involves placing fibre mat formed from coconut fibre in between metal plates of press machine and thereby subjecting it to compression moulding.  
DC A93 P63 Q17 Q44  
PA (KANF) KANEUCHI KAGAKU KOGYO KK  
CYC 1  
PI JP 10119014 A 19980512 (199829)\* 4p B27N003-04 <--  
ADT JP 10119014 A JP 1996-273283 19961016  
PRAI JP 1996-273283 19961016  
IC ICM B27N003-04  
ICS B27N003-08; E04C002-16  
ICA B60R013-02  
AB JP 10119014 A UPAB: 19980722  
The method involves arranging a fibre mat (1) inbetween two metal plates (2). The fibre mat is formed from coconut fibre. A textile mixed with resin setting is laminated on the fibre mat (3). The fibre mat is then subjected to compression moulding by the metal plates of a press machine to obtain a fibre board (3). A coating of polysiloxane is applied to surface of metal plates.

ADVANTAGE - Excels in durability of fibre board. Excels in mould release characteristic during compression moulding.

Dwg.1/2

FS CPI GMPI  
FA AB; GI  
MC CPI: A06-A00E; A11-B09B; A11-B11; A12-A04B; A12-R01; A12-T04B

L4 ANSWER 3 OF 3 JAPIO (C) 2003 JPO on STN  
AN 1998-119014 JAPIO  
TI MANUFACTURE OF FIBER BOARD  
IN IWAMOTO KAZUNARI; FUKUDA RYUJI; HIRAIKI MASASHI; KURIMOTO KENJI  
PA KANECHI CHEM IND CO LTD  
PI JP 10119014 A 19980512 Heisei  
AI JP 1996-273283 (JP08273283 Heisei) 19961016  
PRAI JP 1996-273283 19961016  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1998  
IC ICM B27N003-04

ICS B27N003-08; E04C002-16

ICA B60R013-02

AB PROBLEM TO BE SOLVED: To realize favorable release properties and durability by a method wherein a fiber mat, which is made of coconut fibers mixed with a setting resin, is placed between metal plates, on each of which a polysiloxane is applied, for compression molding.

SOLUTION: Coconut fibers are put in a hopper 5 while a setting resin is fed under pressure in a spray gun 7. Simultaneous with the movement of a belt conveyor 4, the coconut fibers are fallingly fed through respective hoppers 5 and entwined with each other by a needle punching device 6. Further, by jetting the setting resin from spray guns 7 and 7, a fiber mat 1 is produced. A polysiloxane coated on a metal plate 2 is most favorably used by diluting the emulsion type polysiloxane to 1-10% solution. The diluted polysiloxane is applied to the metal plates 2 with a sprayer or the like. The most preferable spread is 1-10g/m<sup>2</sup> by solids content. Next, by placing the fiber mat 1 between the metal plates 2 of a hot press, a fiber board 3 is obtained, a fiber board 3 is obtained through a thermal compression molding.

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